



ABDULLAH
AL FOZAN



UNESCO | AL FOZAN

International Prize for the Promotion of Young
Scientists in Science, Technology, Engineering and
Mathematics (STEM)

INTRODUCTION



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Al-Hijr: The Archaeological Site of Al-Hijr (Madâin Sâlih) is the first World Heritage property to be inscribed in Saudi Arabia. A Nabataean masterpiece that features well-preserved monumental tombs with decorated facades dating from the 1st century BC to the 1st century AD.



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INTRODUCTION

Introduction

The idea of founding an international award for young scientists comes as an extension of the Kingdom of Saudi Arabia's vision of being open and tolerant and its aspiration to be among the active world countries that support science. Founding an award in sciences, and in Science Technology, Engineering, and Mathematics (STEM) in particular, under the umbrella of UNESCO, affirms Saudi Arabia's 2030 vision of its development, culture, and scientific aspirations.

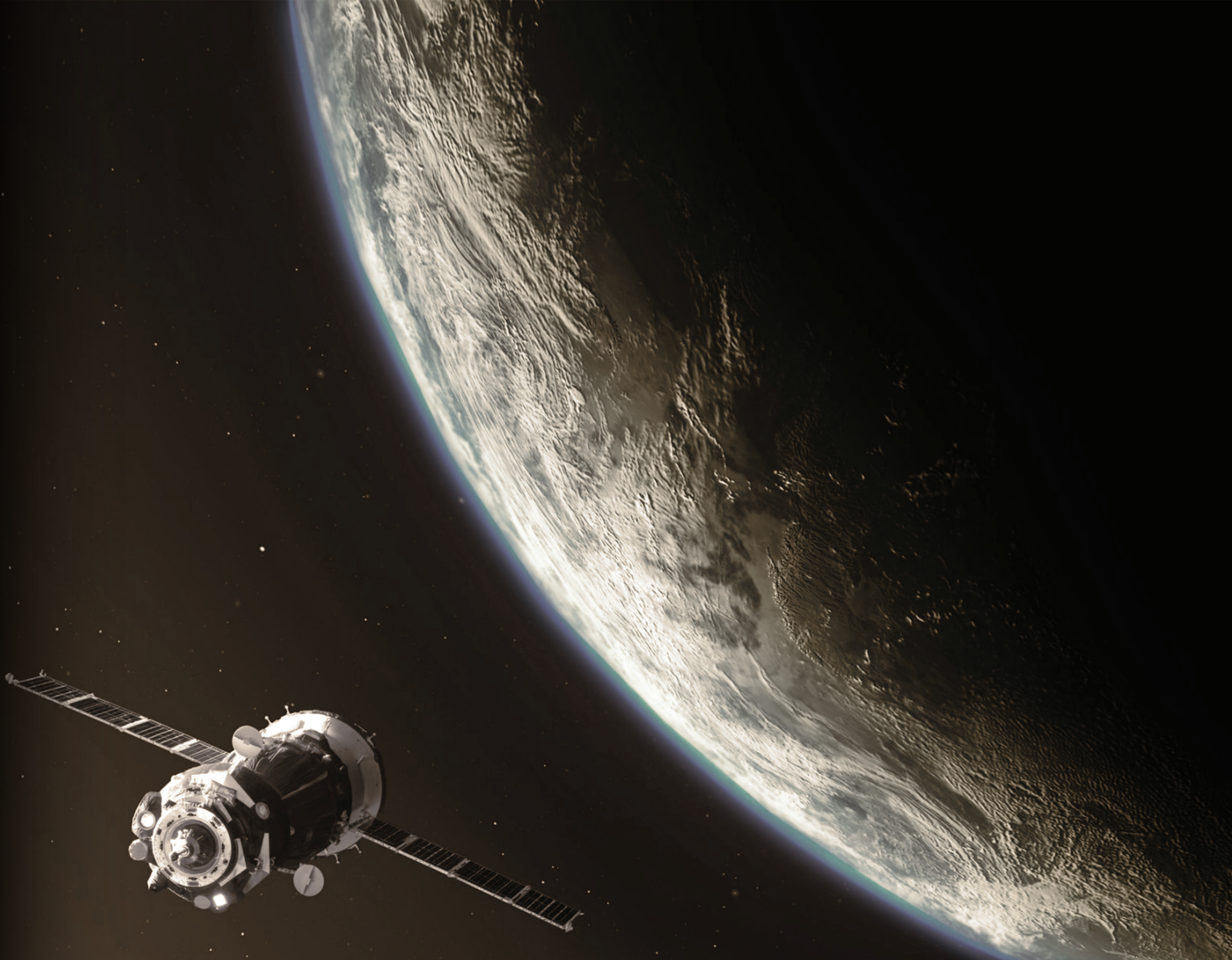
At Al Fozan foundation, we believe that the

establishment of an international award for celebrating the Pioneers in Scientific Achievements will help to enhance and develop societies across the globe in the five UNESCO regions.

The Prize will foster scientific collaboration, scientific progress, and the popularization of science, as well as encourage international cooperation in STEM to advance scientific expertise and respond to the needs of young scientists in countries that are lagging in science and technology.



ستيم - محرك التنمية
STEM - ENGINE FOR DEVELOPMENT





ABOUT MR. ABDULLAH AL FOZAN

Abdullah bin Abdullatif Al Fozan is the chairman of Al Fozan Holding, one of the fastest-growing family businesses in the region.

Owing to his groundbreaking philanthropic initiatives in the educational, environmental and health sectors, Mr. Al Fozan is widely considered as an innovator in Saudi Arabia's non-profit sector. As a reflection of his passion for humanitarian work, he serves as President of the Board of Trustees of the Al Fozan Social Foundation, which embodies Al Fozan Holding Company's deep-rooted commitment to giving back to the community in which it operates.

The Foundation regularly initiates and participates in impactful and sustainable charitable endeavors that aims to serve the society, economy and environment.

Mr. Al Fozan, who holds a Bachelor's degree in accounting from King Saud University in Riyadh, is also Chairman/Managing Director of multiple successful companies operating in the fields of Real Estate, Healthcare, Technology and more like Retal, Ajdan, eXtra.



Al Fozan Academy

Al Fozan Academy was established as the result of cooperation between the King Fahd University of Petroleum and Minerals and Al Fozan Foundation. The academy designs and implements professional qualification programs for leadership development in non-profit organizations across several different disciplines, together with an executive management program based on best international practices. It has signed academic cooperation agreements with international universities such as Business School of London, University of Indiana, Arizona State University, and Grand Valley State University.

<https://alfozan.com/csr/al-fozan-academy>



Abdullatif Al Fozan Autism Center

Situated in Al-Khobar in an area spanning 14,000 square meters, AFAC was established as the largest autism center in the Arabian Gulf to provide a specialized service through a variety of highly qualified cadres. The main purpose of the center is to integrate autistic students of both genders in regular schools in accordance with the age-group regulations applied by the Ministry of Education. AFAC offers a welcoming and supportive community center where children and their families can learn, socialize, and grow.

<https://afac.org.sa/>



Ertiqa

Ertiqa was Established in 2014 as a Non-Profit Organization authorized by the Ministry of Human Resources and Social Development, concerned with the collection, refurbishment, and distribution of used computers to educational and social institutes, as well as limited-income families. Ertiqa provides professional sustainable social services that support intellectual, educational, and eco-friendly programs. It aims to enhance digital content, protect the environment, and share the benefits of technology, hence contributing to cultural and scientific development of the community.

<https://ertiqa.org/>



Mujassam Watan

Mujassam Watan is a national award launched in 2018 by Al Fozan Foundation, with the aim to shed more light on the talents of youth by giving them the opportunity to compete in designing creative, symbolic, and artistic landmarks that express national unity and the history of Kingdom of Saudi Arabia. The winning designs are built in one of the Kingdom's public areas or squares and inaugurated on the Saudi National Day every year. The Award developed multiple landmarks worth millions of Saudi Riyals in several locations.

<https://mwaward.com/>



Abdullatif Al Fozan Award for Mosque Architecture

Established in 2011, Abdullatif AlFozan Award for Mosque Architecture (AFAMA) addresses new ideas for mosque design around the world and encourages innovations in planning, design and technology that shape the identity of mosque architecture in the 21st century. It seeks to highlight the architectural, urban, and technical aspects of mosques, with the goal of enhancing their sustainable development.

<https://alfozanaward.org>



The Saudi Food Bank “ITA’AM”

The Saudi Food Bank was launched in 2010 to maintain the food grace and reduce waste by packaging excess food from hotels and restaurants in an optimal way for redistribution to the needy families. Al Fozan Foundation is one of the main partners in this initiative that is working to achieve the concept of social solidarity by building awareness and supporting society collaboration.

<https://saudifoodbank.com>





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STEM



Why STEM?

Science, Technology, Engineering and Mathematics (STEM) is important for developing and developed countries alike. In addition to increasing public awareness, understanding and literacy regarding science, engineering and technology, it also enables developing countries to build up a critical mass of scientists, researchers and engineers to enable them to participate fully in the global economy. Emphasis is given to encouraging young people, and especially young girls, to pursue careers in science.

Capacity in STEM is a key element in economic and social development. The COVID-19 crisis has revealed the significance of STEM to the world, and especially the importance

of developing the capabilities of scientists. Promoting STEM at all educational levels and scientific literacy across society, in general, is a fundamental building block to strengthening a country's science and technology sectors.

STEM is also vital to long-term sustainable development. STEM education has come to mean the integration of these disciplines, in any combination or ideally all four disciplines. The goal is to motivate students to work in an integrative way, as an inquiry-based pedagogy. This form of learning equips students with soft skills such as problem- solving, collaboration, creativity, and innovation. Advances in IT technologies and Artificial Intelligence have revolutionized how information is transmitted

in all spheres of teaching and learning, from primary schools to the university level.

Confronting the global challenges addressed by the Sustainable Development Goals (SDGs) requires the emergence of new generations of researchers with integrated expertise in more than a single field of science. Problems related to social transformation, poverty, climate change, pandemics, clean water, sanitation, and renewable energy sources, among others, demand that scientists must develop a more multi-disciplinary foundation and be stimulated to creatively and critically examine interdisciplinary questions, while becoming proficient at deploying effective communication tools.





Armillary Sphere : A skeleton celestial globe, with circles divided into degrees for angular measurement. In the 17th and 18th centuries different models were used to show the difference between the Ptolemaic theory of a central Earth and the Copernican theory of a central Sun.



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THE PRIZE

The UNESCO - Al Fozan International Prize for the Promotion of Young Scientists in Science, Technology, Engineering and Mathematics (STEM)



Purpose Statement

The purpose of the UNESCO – AL FOZAN International Prize for the Promotion of Young Scientists in Science, Technology, Engineering and Mathematics (STEM) is to reward research work conducted by talented young researchers across the world that has contributed to their countries and regions. The Prize is consistent with UNESCO main policy lines and ties in with the organization's programs in the suggested fields.

The UNESCO–AI FOZAN International Prize for the Promotion of Young Scientists in STEM will help foster scientific collaboration, scientific progress, and science popularization. It will also encourage international cooperation in STEM to advance scientific expertise and support young scientists in countries that are lagging in science and technology.



The Astrolabe: This astrolabe was made in 1641/2 by Muhammad Muqim ibn Mulla. The back of the astrolabe is engraved with a shadow square, which could be used for surveying purposes.



Al-Idrisi World Map: This map of the world was drawn for King Roger II in the 12th century. The upside-down map (with South on the top), shows India, Arabia, Africa, Asia, the Mediterranean, Sicily, and Cyprus.



Prize Reach and Impact

The Prize will specifically encourage STEM participation that is targeted towards youth. The Prize is therefore expected to be attractive to STEM stakeholders and participants. The

Prize will consist of a monetary reward of 50,000 USD for each of the five winners, representing a total monetary prize value of 250,000 USD.

المعرفة توجد كاملة في الروح الإنسانية متى
وعبر التعليم، تتحول تلك الطاقة إلى واقع.

"Knowledge exists potentially in the human soul like the seed in the soil;
through learning, that potential turns into reality."

Al-Ghazali



Water-Raising Devices: This dynamic scale model display depicts five famous water-raising devices made by Muslim engineers. These devices include al-Jazari's Reciprocating Pump, One-Scoop Pump, Chain-of-Pots and Four-Scoop Pump, and Taqi al-Din's Six-Cylinder Pump.



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CONCLUSION



Conclusion

The Al Fozan Foundation firmly believes in the importance of encouraging young people to undertake scientific careers in the field of STEM and make their work more visible to the

community and society at large. Therefore the Prize is the Foundation contribution towards meeting the SDG objectives and goals.

